

Magnetic properties of Sintered Sm-Co magnets

Materials	Grades	Remanence		Coercive Force		Intrinsic Coercivity		Maximum Energy Product		Curie Temp.	Temp. Coefficient of Br	Temp. Coefficient of Hcj
		Br		Hcb		Hcj		(BH)max				
		T	KG	KA/m	KOe	KA/m	KOe	kJ/m ³	MGOe			
Sm-Co1:5 SmCo ₅	TSC-16s	0.79 - 0.84	7.9 - 8.4	620 - 660	7.8 - 8.3	≧1830	≧23	118 - 135	15 - 17	750	-0.035	-0.28
	TSC-18s	0.84 - 0.89	8.4 - 8.9	660 - 700	8.3 - 8.8	≧1830	≧23	131 - 151	17 - 19	750	-0.040	-0.28
	TSC-20s	0.89 - 0.93	8.9 - 9.3	684 - 732	8.6 - 9.2	≧1830	≧23	150 - 167	19 - 21	750	-0.045	-0.28
	TSC-22s	0.92 - 0.96	9.2 - 9.6	710 - 756	8.9 - 9.5	≧1830	≧23	167 - 183	21 - 23	750	-0.045	-0.28
	TSC-24s	0.96 - 1.00	9.6 - 10.0	740 - 788	9.3 - 9.9	≧1830	≧23	183 - 199	23 - 25	750	-0.045	-0.28
Sm-Co2:17 Sm ₂ (CoFeCuZr) ₁₇ Sm ₂ Co ₁₇	TSCG-24H	0.95 - 1.02	9.5 - 10.2	692 - 764	8.7 - 9.6	≧1990	≧25	175 - 191	22 - 24	800	-0.025	-0.20
	TSCG-26H	1.02 - 1.05	10.2 - 10.5	748 - 796	9.4 - 10.0	≧1990	≧25	191 - 207	24 - 26	800	-0.030	-0.20
	TSCG-28H	1.03 - 1.08	10.3 - 10.8	756 - 812	9.5 - 10.2	≧1990	≧25	207 - 220	26 - 28	800	-0.035	-0.20
	TSCG-30H	1.08 - 1.10	10.8 - 11.0	788 - 835	9.9 - 10.5	≧1990	≧25	220 - 240	28 - 30	800	-0.035	-0.20
	TSCG-32H	1.10 - 1.13	11.0 - 11.3	812 - 860	10.2 - 10.8	≧1990	≧25	230 - 255	29 - 32	800	-0.035	-0.20
	TSCG-33H	1.12 - 1.16	11.2 - 11.6	845 - 890	10.6 - 11.2	≧1990	≧25	240 - 260	30 - 33	800	-0.035	-0.20
	TSCG-22	0.93 - 0.97	9.3 - 9.70	676 - 740	8.5 - 9.3	≧1433	≧18	160 - 183	20 - 23	800	-0.020	-0.20
	TSCG-24	0.95 - 1.02	9.5 - 10.2	692 - 764	8.7 - 9.6	≧1433	≧18	175 - 191	22 - 24	800	-0.025	-0.20
	TSCG-26	1.02 - 1.05	10.2 - 10.5	748 - 796	9.4 - 10.0	≧1433	≧18	191 - 207	24 - 26	800	-0.030	-0.20
	TSCG-28	1.03 - 1.08	10.3 - 10.8	756 - 812	9.5 - 10.2	≧1433	≧18	207 - 220	26 - 28	800	-0.035	-0.20
	TSCG-30	1.08 - 1.10	10.8 - 11.0	788 - 835	9.9 - 10.5	≧1433	≧18	220 - 240	28 - 30	800	-0.035	-0.20
	TSCG-32	1.10 - 1.13	11.0 - 11.3	812 - 860	10.2 - 10.8	≧1433	≧18	230 - 255	29 - 32	800	-0.035	-0.20
	TSCG-33	1.12 - 1.16	11.2 - 11.6	845 - 890	10.6 - 11.2	≧1433	≧18	240 - 260	30 - 33	800	-0.035	-0.20
	TSCG-26M	1.02 - 1.05	10.2 - 10.5	676 - 780	8.5 - 9.8	955 - 1433	12 - 18	191 - 207	24 - 26	800	-0.035	-0.20
	TSCG-28M	1.03 - 1.08	10.3 - 10.8	676 - 796	8.5 - 10.0	955 - 1433	12 - 18	207 - 220	26 - 28	800	-0.035	-0.20
	TSCG-30M	1.08 - 1.10	10.8 - 11.0	676 - 835	8.5 - 10.5	955 - 1433	12 - 18	220 - 240	28 - 30	800	-0.035	-0.20
	TSCG-32M	1.10 - 1.13	11.0 - 11.3	676 - 852	8.5 - 10.7	955 - 1433	12 - 18	230 - 255	29 - 32	800	-0.035	-0.20
	TSCG-24L	0.95 - 1.02	9.5 - 10.2	541 - 716	6.8 - 9.0	636 - 955	8 - 12	175 - 191	22 - 24	800	-0.025	-0.20
	TSCG-26L	1.02 - 1.05	10.2 - 10.5	541 - 748	6.8 - 9.4	636 - 955	8 - 12	191 - 207	24 - 26	800	-0.035	-0.20
	TSCG-28L	1.03 - 1.08	10.3 - 10.8	541 - 764	6.8 - 9.6	636 - 955	8 - 12	207 - 220	26 - 28	800	-0.035	-0.20
TSCG-30L	1.08 - 1.15	10.8 - 11.5	541 - 796	6.8 - 10.0	636 - 955	8 - 12	220 - 240	28 - 30	800	-0.035	-0.20	
TSCG-32L	1.10 - 1.15	11.0 - 11.5	541 - 812	6.8 - 10.2	636 - 955	8 - 12	230 - 255	29 - 32	800	-0.035	-0.20	